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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,782	02/06/2006	Michael Souza	2003CIPPCT	2989
	7590 02/25/2008 TON, ESQ., BARRY G. MAGIDOFF, ESQ.		EXAMINER	
GREENBERG TRAURIG, LLP			NEGRON, ISMAEL	
200 PARK AVENUE NEW YORK, NY 10166			ART UNIT	PAPER NUMBER
			2885	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/519,782	SOUZA ET AL.				
Office Action Summary	Examiner	Art Unit				
	ISMAEL NEGRON	2885				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>21 F</u>	Sehruary 2006					
'=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>7-26</u> is/are pending in the application	_					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-26</u> is/are rejected.	·					
7)⊠ Claim(s) <u>20</u> is/are objected to.						
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>29 <i>December</i> 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Response to Amendment

1. Applicant's preliminary amendment filed on February 21, 2006 has been entered. Claims 7, 17, 21 and 25 have been amended. Claims 1-6 have been cancelled. No claim has been added. Claims 7-26 are still pending in this application, with claims 7, 18-24 and 26 being independent.

Abstract

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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2. The abstract of the disclosure is objected to because it exceeds 150 words in length. Correction is required. See MPEP § 608.01(b).

Claim Objections

3. Claim 20 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 19. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

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F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 4. <u>Claims 7-17</u> are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-11 (respectively) of U.S. Patent No. 6,824,296 (SOUZA et al.) in view of RUSKOUSKI (U.S. Pat. 5,655,830).
- 5. SOUZA et al. teaches all the limitations of the claims, except the lamp of the patented device being an LED coupled to a power circuit including a resistor, a diode and a capacitor, such power circuit being adapted to be connected to a source of AC voltage (as recited in Claim 1).
- 6. RUSKOUSKI discloses a light ting device including:
 - a lamp (as recited in Claim 1), Figure 1, reference number 15;
 - the lamp including a light emitting diode (as recited in Claim
 1), Figure 2, reference number 38;
 - a power supply circuit (as recited in Claim 1), as seen in Figure
 2;

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the power supply circuit including a resistor (as recited in
 Claim 1), Figure 2, reference number 40;

- the power supply circuit including a diode (as recited in Claim
 1), Figure 2, reference number 38;
- the power supply circuit including a capacitor (as recited in Claim 1), Figure 2, reference number 55;
- the resistor, diode and capacitor being connected in series (as
 recited in Claim 1), as seen in Figure 2;
- the power supply circuit being adapted to be connected to a source of AC voltage (as recited in Claim 1), column 5, lines 60-63; and
- the value of the current in the series circuit being determined by the value of the impedance of the resistor in series with the capacitor (as recited in Claim 1), as evidenced by Figure 2.
- 7. The examiner takes Official Notice that the use of LEDs is old and well known in the illumination art, as evidenced by RUSKOUSKI. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the light source in the patented device of SOUZA et al. with the LED of RUSKOUSKI. One would have been motivated since LEDs are recognized in the illumination art to have many desirable advantages, including reduced size, high efficiency, low power consumption, long life, resistance to vibrations, faster reaction times, and low heat production, over other light sources.

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8. Claims 24 and 25 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,824,296 (SOUZA et al.) in view of RUSKOUSKI (U.S. Pat. 5,655,830).

- 9. SOUZA et al. teaches all the limitations of the claims, except the lamp of the patented device being an LED coupled to a power circuit including a resistor, a diode and a capacitor, such power circuit being adapted to be connected to a source of AC voltage (as recited in Claim 1).
- 10. RUSKOUSKI discloses a light ting device including:
 - a lamp (as recited in Claim 24), Figure 1, reference number 15;
 - the lamp including a light emitting diode (as recited in Claim 24), Figure 2, reference number 38;
 - a power supply circuit (as recited in Claim 25), as seen in Figure
 2;
 - the power supply circuit including a resistor (as recited in
 Claim 25), Figure 2, reference number 40;
 - the power supply circuit including a diode (as recited in Claim
 25), Figure 2, reference number 38;
 - the power supply circuit including a capacitor (as recited in Claim 25), Figure 2, reference number 55;
 - the resistor, diode and capacitor being connected in series (as
 recited in Claim 25), as seen in Figure 2;

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- the power supply circuit being adapted to be connected to a source of AC voltage (as recited in Claim 25), column 5, lines 60-63; and

- the value of the current in the series circuit being determined
 by the value of the impedance of the resistor in series with the
 capacitor (as recited in Claim 25), as evidenced by Figure 2.
- 11. The examiner takes Official Notice that the use of LEDs is old and well known in the illumination art, as evidenced by RUSKOUSKI. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the light source in the patented device of SOUZA et al. with the LED of RUSKOUSKI. One would have been motivated since LEDs are recognized in the illumination art to have many desirable advantages, including reduced size, high efficiency, low power consumption, long life, resistance to vibrations, faster reaction times, and low heat production, over other light sources.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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12. <u>Claims 18 and 23</u> are rejected under 35 U.S.C. 102(b) as being anticipated by RUSKOUSKI (U.S. Pat. 5,655,830).

- 13. RUSKOUSKI discloses a power supply circuit for an LED, such circuit including:
 - a resistor (as recited in claims 18 and 23), Figure 2, reference number 40;
 - a first diode (as recited in claims 18 and 23), Figure 2, reference number 38;
 - a first light emitting diode (as recited in claims 18 and 23),
 Figure 2, reference number 38;
 - a capacitor (as recited in claims 18 and 23), Figure 2, reference number 55;
 - the resistor, first diode, first light emitting diode (LED) and capacitor being connected in series (as recited in claims 18 and 23), as seen in Figure 2;
 - the power supply circuit being adapted to be connected to a source of AC voltage (as recited in claims 18 and 23), column 5, lines 60-63;
 - the value of the current in the series circuit being determined
 by the value of the impedance of the resistor in series with the
 capacitor (as recited in Claim 18), as evidenced by Figure 2;
 - a second diode (as recited in claims 18 and 23), Figure 2, reference number 38;

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- a second light emitting diode (as recited in claims 18 and 23),
Figure 2, reference number 38;

- the second diode and second light emitting diode (LED) being
 connected in series (as recited in Claim 23), as seen in Figure 2;
- the second diode and LED being connected in parallel with the first diode and LED, but in reverse polarity (as recited in Claim
 23), as seen in Figure 2;
- the first diode being connected to block negative half waves

 (as recited in Claim 23), as evidenced by Figure 2; and
- the first diode and LED and the second diode and LED lighting alternately on each half of an AC wave (as recited in Claim 23), as evidenced by Figure 2.
- 14. <u>Claims 19 and 20</u> are rejected under 35 U.S.C. 102(b) as being anticipated by ANDERSON (U.S. Pat. 5,575,459).
- 15. ANDERSON discloses a power supply circuit for an LED, such circuit including:
 - a capacitor (as recited in claims 19 and 20), Figure 2, reference number 10;
 - an LED (as recited in claims 19 and 20), Figure 2, reference number 2;

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- a diode (as recited in claims 19 and 20), Figure 2, reference number 2;

- the LED and the diode being coupled in parallel but in reverse polarity (as recited in claims 19 and 20), as seen in Figure 2;
- a resistor coupled in series with the LED and diode (as recited in claims 19 and 20), Figure 2, reference number 11;
- the power supply circuit being adapted to be connected to a source of AC voltage (as recited in claims 18 and 23), as seen in Figure 2;
- the diode blocking AC current when its polarity is such that
 the LED is reversed biased (as recited in claims 18 and 23), as
 evidenced by Figure 2.
- 16. Regarding the impedance of the capacitor being selected to limit the current in the LED, the applicant is advised that the patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 227 USPQ 964, (Fed. Cir. 1985). In this case, the cited limitations failed to distinguish the claimed structure from the patented circuit of ANDERSON. See MPEP § 2113

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17. <u>Claim 21</u> is rejected under 35 U.S.C. 102(b) as being anticipated by JOHNSON (U.S. Pat. 5,463,280).

- 18. JOHNSON discloses a power circuit for an LED, such circuit having:
 - a capacitor (as recited in Claim 21), Figure 1, reference number 20;
 - a resistor in series with the capacitor (as recited in Claim 21), inherent, as the electrical connection between the capacitor and the source necessarily includes a resistive element;
 - a bridge rectifier (as recited in Claim 21), Figure 1, reference
 number 22;
 - the bridge rectifier having first and second input terminals (as
 recited in Claim 21), as seen in Figure 1;
 - the bridge rectifier having first and second output terminals
 (as recited in Claim 21), as seen in Figure 1;
 - the first input terminal being coupled to the capacitor (as
 recited in Claim 21), as seen in Figure 1;
 - the capacitor and the second input terminal being adapted to be connected to a source of AC potential (as recited in Claim
 21), as seen in Figure 1;
 - a light emitting diode (as recited in Claim 21), Figure 1, reference number 16;

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- the light emitting diode (LED) being connected across the first and second output terminals (as recited in Claim 21), as seen in Figure 1; and

the bridge rectifier rectifying the AC potential to provide DC current to the LED (as recited in Claim 21), as evidenced by
 Figure 1.

- 19. <u>Claim 22</u> is rejected under 35 U.S.C. 102(b) as being anticipated by MADADI et al. (U.S. Pat. 5,688,042).
- 20. MADADI et al. discloses a power circuit for an LED, such circuit having:
 - a capacitor (as recited in Claim 22), Figure 9, reference number
 16;
 - a bridge rectifier (as recited in Claim 22), Figure 9, reference
 number 28;
 - the bridge rectifier having first and second input terminals (as
 recited in Claim 22), as seen in Figure 9;
 - the bridge rectifier having first and second output terminals
 (as recited in Claim 22), as seen in Figure 9;
 - the first input terminal being coupled to the capacitor (as
 recited in Claim 22), as seen in Figure 9;

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the capacitor and the second input terminal being adapted to be connected to a source of AC potential (as recited in Claim
 22), as seen in Figure 9;

- a resistor (as recited in Claim 22), Figure 9, reference number
 29;
- a light emitting diode (as recited in Claim 22), Figure 9, reference number 26;
- the resistor being in series with the light emitting diode (as
 recited in Claim 22), as seen in Figure 9;
- the resistor and light emitting diode (LED) being connected across the first and second output terminals (as recited in Claim 22), as seen in Figure 9;
- the resistor limiting the in rush current (as recited in Claim
 22), as evidenced by Figure 9; and
- the bridge rectifier rectifying the AC potential to provide DC current to the LED (as recited in Claim 22), as evidenced by Figure 9.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 21. <u>Claim 26</u> is rejected under 35 U.S.C. 103(a) as being unpatentable over ANDERSON (U.S. Pat. 5,575,459).
- 22. ANDERSON discloses a power supply circuit for an LED, such circuit including:
 - a resistor (as recited in Claim 26), Figure 2, reference number
 11;
 - a diode (as recited in Claim 26), Figure 2, reference number 2;
 - an LED (as recited in Claim 26), Figure 2, reference number 2;
 - a circuit element (as recited in Claim 26), Figure 2, reference number 10;
 - the resistor, LED and circuit element being connected in series

 (as recited in Claim 26), as seen in Figure 2;
 - the circuit being adapted to be connected to a source of AC potential (as recited in Claim 26), as seen in Figure 2; and
 - the value of the current in the circuit being determined by the value of the impedance of the resistor in series with the circuit element (as recited in Claim 26), as evidenced by Figure 2.
- 23. ANDERSON discloses all the limitations of the claim, except the circuit element being an inductor (as recited in Claim 26).

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24. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to use and inductor as the circuit element of the patented power supply of ANDERSON, since the Examiner takes Official Notice of the use of inductor in power supply circuit being old and well known in the art. In this case, selecting a specific circuit element, such as the claimed inductor, would have flown naturally to one of ordinary skill in the art as necessitated by the specific requirements of a given application.

Relevant Prior Art

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Richardson (U.S. Pat. 3,795,830), Smallegan (U.S. Pat. 3,968,355), Yamuro (U.S. Pat. 5,155,669), Malita (U.S. Pat. 5,388,357), Victor (U.S. Pat. App. Pub. 2002/0030991), Leen (U.S. Pat. 6,709,126), Guerrieri et al. (U.S. Pat. App. Pub. 2004/0095763) and Burdick (U.S. Pat. App. Pub. 2004/0246704) disclose illumination devices including LEDs and power supply circuit adapted for connecting the LED to an AC power source.

Conclusion

26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ismael Negron whose telephone number is (571) 272-

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2376. The examiner can normally be reached on Monday-Friday from 9:00 A.M. to 6:00

P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jong-Suk (James) Lee, can be reached on (571) 272-7044. The facsimile

machine number for the Art Group is (571) 273-8300.

27. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications maybe obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, go to http://pair-direct.uspto.gov. Should you

have questions on access to Private PAIR system, contact the Electronic Business

Center (EBC) toll-free at 866-217-9197.

/Ismael Negron/ Patent Examiner AU 2885